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public static void bulgarianSolitaire(int numCards) {

    // Check if given number of cards is triangular
    int n = (int) Math.sqrt(2 * numCards);
    if (n * (n + 1) / 2 != numCards) {
        System.out.println(numCards + " is not triangular");
        return;
    }

    ArrayList<Integer> piles = new ArrayList<Integer>();
    ArrayList<Integer> res = new ArrayList<Integer>();

    Random randy = new Random();

    int num = numCards;
    while (num > 0) {
        int rand = randy.nextInt(num)+1;
        num -= rand;
        piles.add(rand);
    }
    System.out.println("Starting Piles: " + piles);

    int sum = 0;
    for (int i = 1; numCards != sum; i++) {
        sum += i;
        res.add(i);
    }
    System.out.println();
    System.out.println("Work:");
    while (piles.containsAll(res) == false) {
        int count = piles.size();
        for (int i = 0; i <= piles.size() - 1; i++) {

            piles.set(i, piles.get(i) - 1);
            if (piles.get(i) == 0) {
                piles.remove(i);
                i--;
            }
        }
        piles.add(count);
        System.out.println(piles);
    }
    System.out.println();
    System.out.println("Expected Result (in any order): " + res);
}

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        System.out.println();  
        System.out.println("Result: " + piles);  
    }  
}
```